Educating the DoD Communities and Services















Acquisition; Test and Evaluation

M&S Leadership Summit – 11 Feb 2008

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The problem

- M&S is not realizing its potential for cost savings in DoD
 - Customers of M&S do not know how to employ M&S effectively
 - Which tools to use, when to use them, how to use them, how to get them.
 - Customers of M&S do not understand risk and benefits of using M&S
- Education can help drive wider acceptance and use





The approach

 Identify requirements using a wide set of stakeholders for focused initial audience

Develop educational offerings using the best US university

programs

Make them widely available

Web

DAU CLMs

University Courses

Short courses

Public domain

Track return on investment longitudinally



Educating the DoD Communities and Services



Our initial audience

Why start with Acquisition?

128,000 workforce members controlling over \$150B/year*

Career Levels
Advanced/Senior
Intermediate/Journeyman
Basic/Entry

Acquisition Career Fields

Program Management Systems Engineering

Test and Evaluation

Contracting Logistics

Facilities Engineering

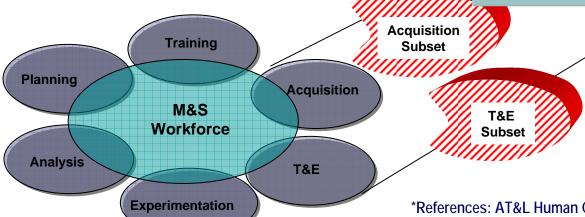
Auditing

Science & Technology

Information Technology

Business, cost estimating, and financial mgmt Industrial and/or contract property management Manufacturing, production and quality assurance

Purchasing



*References: AT&L Human Capital Strategy Plan v3.0, 2007; National Defense Budget Estimates for FY2007,

http://www.defenselink.mil/comptroller/defbudget/fy2007/

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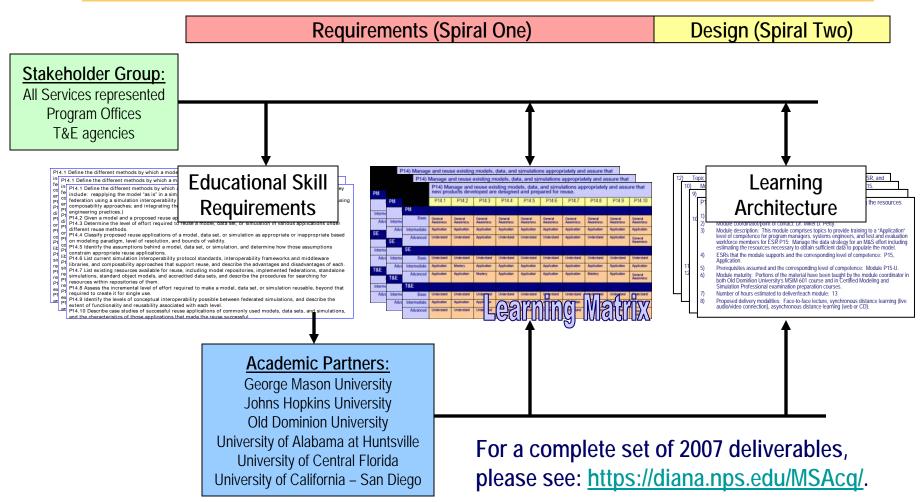
Results to date

- Requirements identified and vetted
- Module and course syllabi developed and distributed
- Both requirements and syllabi available at https://diana.nps.edu/MSAcq
- Case studies to support courses developed and web-enabled
 - Ship Shock Case Study

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2007 graphic



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This year

- Develop and test the courses
- Develop web-delivered summary versions
- Develop CLMs for DAU
- Develop short course versions
- Develop assessment plan
- Publish "Program Manager's Guide to M&S"Details

Modeling and Simulation Educating the DoD Communities and Services



Details

15 Courses planned for development

M&S in the Acquisition Life Cycle, Parts One and Two

M&S Strategy and Support Plans

M&S Requirements and Evaluating M&S Proposals

Contracting for M&S

M&S In Decision Risk Analysis and Mitigation

Best Practices in M&S

M&S Environments

M&S Data Strategies

M&S for Test and Evaluation, Introduction and Advanced

Physics-based M&S

Basic Engineering Concepts in M&S, parts 1 & 2

Topics in the Application of Engineering M&S

Four Certificate programs:

- M&S Management
 - Intro to DoD M&S
 - Modeling and Simulation in the Acquisition Life Cycle, Parts 1 & 2
 - Best Practices in M&S
- M&S Acquisition
 - M&S Strategy and Support Plans
 - M&S Requirements & Evaluating Proposals
 - Contracting for M&S
 - M&S in Decision Risk Analysis

- M&S Test and Evaluation
 - M&S for Test and Evaluation. Introduction and Advanced
 - M&S Environments
 - M&S Data Strategies

Planned NPS Implementation

M&S Engineering Integration

- Physics-based M&S
- Basic Engineering Concepts in M&S, Parts 1 and 2
- Selected Topics in the Application of Engineering M&S

Certificates can be credited toward resident and non-resident NPS degree programs





Issues

- Incentivizing workforce
- Funding tuition
- Embedding content into DAU core courses
- Extending to other communities
- Scaling
- Documenting cost avoidance and cost savings





Program Benefits

- Comprehensive educational program focused on consumers of M&S. Significant step towards satisfying DoD M&S educational needs.
- Partnership of government and academia opportunity to influence the culture of M&S education.
- Improved workforce capabilities across all Services, activities and programs that utilize M&S.
- Increased use of M&S in acquisition to realize potential savings from simulation based acquisition in the DoD not being realized today.
- All learning materials created from this project will be public domain the nation will not have to pay for this work again.
- 80% of course materials will support all 6 communities, and the program is constructed in a way to facilitate reuse.





Conclusion

Current path will result in products that provide the education and training that acquisition and T&E professionals need to use M&S effectively in their jobs.

For more information about this project, please see https://diana.nps.edu/MSAcq, or contact:

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Questions?





Backup

